#### CIA-RDP86-00513R001757010006-4 "APPROVED FOR RELEASE: 03/14/2001

Bartenev, G. M., Tsepkov, L. P. AUTHORS:

SOV/20-121-2-18/53

TITLE:

The Scale Factor and the Strength of Glass (Masshtabnyy faktor

i prochnost' stekla)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2,

pp. 260 - 263 (USSR)

ABSTRACT:

The purpose of the present paper is an investigation of the scale effect under different experimental conditions and with different samples. By scale effect the influence

of the dimensions of the working parts of a sample or a product on its strength is meant. This effect is most distinctly

marked in brittle material, as e.g. silicate glass. Ex-

perience has shown that the strength of glass practically only depends on the strength of the surface. At first the authors briefly discuss a few previous papers (Refs 1-6) which in the description of the influence of the scale factor on the strength of glass arrived at contradicting results. In the following at first the strength of a glass fibre and then different bending and stretching experiments with glass samples are

discussed. The strength of a fibre only depends on the coefficient of expansion  $\alpha$ , but not on the diameter of the

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CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

The Scale Factor and the Strength of Glass

SOV/20-121-2-18/53

fibre. For  $\alpha$  it is valid  $\alpha$  = 1 +  $\epsilon_{pl}$ , where  $\epsilon_{pl}$  is the value of the plastic deformation in the production. The crack resistance does not change by changing the diameter of a fibre (if  $\alpha = const$ ). Bending and stretching experiments with glass plates provided the following results: 1) The strength does not change with the thickness; 2) Glass, investigated by the method of vertical stretching, shows an influence of the thickness on the surface condition: The thicker the glass, the lower will be the strength of its surface. In figures the tables show the results of bending and stretching experiments (transverse and symmetrical bending). It becomes evident that the influence of internal tensions can be neglected as long as these are small. There are 4 figures and 9 referwhich are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut stekla (All-Union Scientific Research Institute for Glass )

card 2/3

CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

The Scale Factor and the Strength of Glass

SOV/20-121-2-18/53

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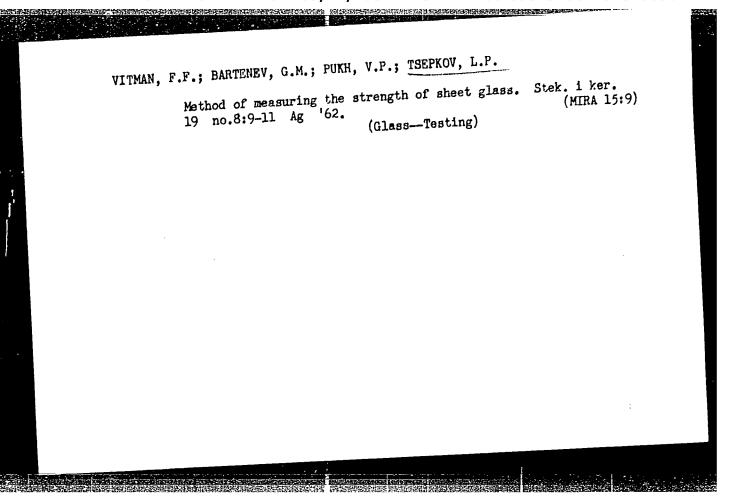
January 13, 1958, by P.A.Rebinder, Member, Academy of

Sciences, USSR

SUBMITTED:

January 9, 1958

Card 3/3



TSEPROV, L.P.; PARTEMEV, G.M.

Determination of elasticity constants of glass by means of wire strain gauges. Zav.lat. 28 no.6:731-732 :62. (MIRA 15:5) wire strain gauges. 28 no.

s/032/62/028/006/021/025 B108/B104

AUTHORS:

Tsepkov, L. P., and Bartenev, G. M.

TITLE:

Determination of the elastic constants of glass by means of

strain gages

PERIODICAL:

Zavodskaya laboratoriya, v. 28, no. 6, 1962, 731-732

TEXT: A method of determining the Young modulus and Poisson's ratio of glasses and crystalline glasses is presented. Strain gages are glued to two standard specimens and connected to an electronic tensiometer. One of the specimens is symmetrically loaded on two sites. The Young modulus can then be found from the difference in tensiometer readings on the loaded and unloaded specimen. Poisson's ratio can be found in a similar way. Results are in good agreement with those obtained by other methods. There are 2 figures and 1 table.

ASSOCIATION: Gosudarstvennyy institut stekla (State Institute of Glass)

Card 1/1

CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

Mature of the scale effect of ice. Zav.lab. 26 no.3:330-331 '60.

(MIRA 13'6)

1. Gosudarstvennyy nauchno-iasledovatel'skiy institut stekla.

(Strength of materials)

(Ice--Testing)

# "APPROVED FOR RELEASE: 03/14/2001

## CIA-RDP86-00513R001757010006-4

05273 S0V/170-59-7-4/20

24(6)

Bartenev, G.M., Tsepkov, L.P.

AUTHORS:

TITLE:

On Testing Strength of Glass

PERIODICAL

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 7, pp 20 - 28 (USSR) Inorganic glass is an ideal material for checking the theory of elasti-

ABSTRACT:

city. The methods of testing which have been applied so far are, however, not very well substantiated, and the data available in literature are contradictory. The authors analyzed the tests of flat glass for transverse and symmetrical bending under statical loads. The checking of formulae of the material strength theory for transverse bending was made formulae of the material strength theory for transverse bending was made the formulae of the material strength theory for transverse bending was made to Frokht, Koker and Faylon (Refs 9,10) on glass specimens of the beam thickby Frokht, Koker and Faylon (Refs 9,10) on glass specimens of the beam thickby Frokht, Koker and Faylon (Refs 9,10) on glass specimens of the beam thickby type. However, according to N.M. Belyayev, when the ratio of beam thickby type. However, according to N.M. Belyayev, and calculation conditions to the second of the se ness to its span d/L < 1/5, it works as a plate, and calculation conditions should be changed. tions should be changed. The authors carried out tests of both rigid and elastic glass plates, and the results are compiled in Table 2. A conclusion drawn from these tests is as follows: sion drawn from these tests is as follows; formulae applied for calculation the strength and the mentioned for the strength and the mentioned for the strength and the strength ting the strength and the magnitude of arising stresses in tests for transverse bending, hold for rigid and elastic plates, provided that deflections do not exceed the thickness of the plate. verse bending, note for rigid and elastic places, provided that delivered to bending do not exceed the thickness of the plate.

Card 1/3

05273 S0V/170-59-7-4/20

On Testing Strength of Glass

were carried out to determine the strength of the surface of glass plates. A series of tests with a freely supported plate on a square and on a round support, subjected to a load concentrated in the center, were performed. For the case of a square plate on a square support there are 3 different formulae proposed by Timoshenko [Ref 11], Roark can be seen from the results of Ref 147 and Markus Ref 157. As tests of a square plate with a square support, presented in Figure 2, Markus' formula holds with an accuracy of ± 10% for the plates in which D < 1/6 a, where D is the diameter of the drill core, and a is the side of the square support. At D>1/6 a, Roark's formula yields better results. For the case of a round plate on a round support, best results are yielded by Formula 7, proposed by Timoshenko, provided that D> 1/4 a. The authors investigated, moreover, an effect of the edges in tests for symmetrical bending. Their conclusion is that the edges should extend by 1 to 2 d beyond the support. The shape of the plate should correspond to the contour of the support. In the conclusion the authors thank S.N. Zhurkov, Corresponding Member AS USSR for discussing the present in-

Card 2/3

On Testing Strength of Glass

05273

SOV/170-59-7-4/20

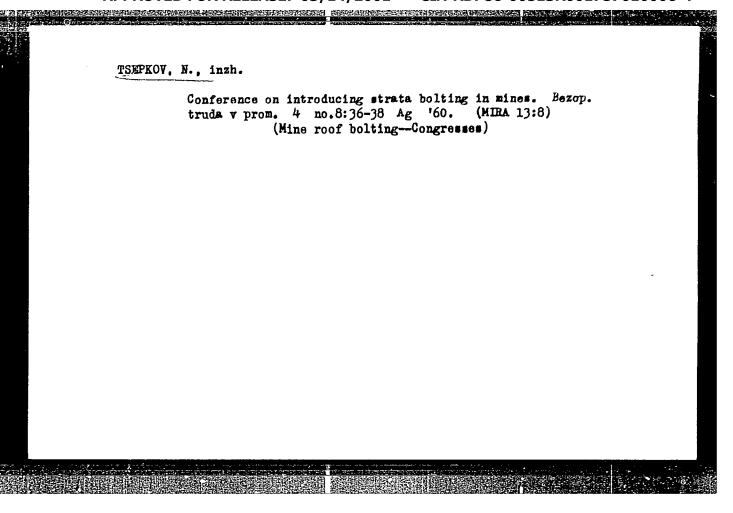
vestigation.

THE VERTICAL PROPERTY OF THE P

There are: 2 graphs, 1 diagram, 1 photo, 4 tables and 18 references, 12 of which are Soviet, 4 English, 1 French and 1 German.

ASSOCIATION: Gosudarstvennyy nazhno-issledovatel skiy institut stekla (State Scientific Research Institute for Glass), Moscow.

Card 3/3



TSEPKOVA, N.A.

MASHKOVTSEV, V.F.: TSEPKOVA, N.A.; MOISEYEVA, M.Ye.

Destruction of nicotine by tobacco plants autolysis and deficiency metabolism. Dokl.AN SSSR 98 no.3:491-494 S '54. (MLRA 7:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tabaka i makhorki im. A.I.Mikayana, Krasnodar.

(PLANTS,
tobacco, nicotine destruction)

(NIGOTINE, metabolism,
tobacco plant, destruction)

Penetrating skull wound from a nail. Sud.-med.ekspert. 5 no.4:5253 O-D '62.

1. Kafedra sudebnoy meditsiny (zav. - døtsent I.I.Naynis)
Kaunasskogo meditsinskogo instituta.
(SKULL-WOUNDS AND INJURIES)

S/169/60/000/006/019/021 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 182, # 6777

AUTHORS: Tseplekha, Z., Raykhl', Ya., Segnal, L.

TITLE: The New Czechoslovakian Meteorite "Lugi"

PERIODICAL: Astron. tsirkulyar, 1959, 18 iyunya, No. 203, p. 17

TEXT: On April 7, 1959, at 19<sup>h</sup>30<sup>m</sup>(Ut), a bolide was observed in the western part of Czechoslovakia, which caused 50 - 100 lux illumination intensity at a distance of 50 km. The velocity (20 km/sec), the inclination of the trajectory with respect to the earth's surface (43°), and the projection of the trajectory (at a distance of about 300 m from the projection of the detonation point) were determined from photographs. Not far from the village of Lugi, the meteorite of 4.5 kg weight was found.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

TSEPKOV, S.V., inzhener.

Maintenance of the Moscow-Noginsk highway. Avt.dor. 20 no.3:14-15

Mr '57.

(Roads--Maintenance and repair)

\$/035/60/000/006/029/038 A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 6, p. 67, # 5332

AUTHORS: Tseplekha, Z., Raykhl', Ya. Segnal, L.

TITLE: New Czechoslovakian Meteorite "Lugi"

PERIODICAL: Astron. tsirkulyar, 1959, iyunya 18, No. 203, p. 17

TEXT: On April 7, 1959, at  $19^{\rm h}30^{\rm m}$  Universal time, a very bright bolide was observed in the western part of Czechoslovakia. The trajectory of the bolide flight was determined from the photographic and visual observations and was projected on the ground surface. A stone meteorite weighing 4.5 kg was found in 300 m from the spot of explosion (not far from the village of Lugi).

N. P. K.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

VR

TSEPLEV, N.S.; KRAYNIKOVA, Z.V.

Chemical cleaning of driers. Lit. proizv. nc.5:41 My '62. (Mika 16:3)

(Drying apparatus—Cleaning)

L 40249-66 ENT(1)/T IJP(c) JGS/GN

ACC NR: AT6020808

SOURCE CODE: UR/2534/65/000/026/0119/0131

AUTHOR: Tseplekha, Z.; Raykhl', Ya.

3/1

ORG: Astronomical Institute of the Częchoslovak Academy of Sciences, Ondr Czechoslovakia (Astronomicheskiy institut Chekhoslovatskoy Akademii nauk)

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TITLE: Program of photographing bright bolides by cameras with a 180 degree field of view in Czechoslovakia

SOURCE: AN SSSR. Komitet po meteoritam. Meteoritika, no. 26, 1965, 119-131

TOPIC TAGS: meteor, meteorite, astronomic camera, wide field camera, stellar photography

ABSTRACT: In this article the authors discuss the introduction of a new program of systematic photographing of bolides in Czechoslovakia which was recommended by the International Astronomical Union. The main purpose of the bolide program is to determine the trajectories and orbits of large meteors which can reach the earth's surface as meteorites. Furthermore, systematic material containing accurate data on the orbits of bright bolides will be obtained. Photographing of the trajectory of a bright bolide improves the possibility of finding the meteorite. It has been established that the probability of finding a meteorite in a given region as a result of photographing the trajectory of the bolide is increased approximately by 25%.

Card 1/2

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ACC NR. AT6020808

By establishing a network of stations one bolide accompanying the fall of a meteorite can probably be successfully photographed in Czechoslovakia. The authors describe the "all-sky" camera to be used in the program. A map of Czechoslovakia indicates the 24 places where the cameras are situated for photographing the entire sky. In citing the results of using the all-sky camera system the author indicates that the brightest bolide which has been photographed so far was a bolide with a stellar magnitude of 11 recorded on October 19, 1963. The results of analyzing the photographs of this bolide are given in tabular form. The authors also describe the method of reducing the photographic films. Orig. art. has: 8 tables, 7 figures, and 27 formulas.

SUB CODE: 03,14/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 002

Card 2/2 MLP

AKISHIN, A.I.; TSEPLYAYEV, L.I.

Secondary-electron multiplier for micrometeor recording.
Geomag. i aer. 4 no.1:202-205 Ja-F'64. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet.

RECORDING OF Neutral atoms having an energy of 50 - 500 ev. 12".

AN SSSR. Ser. fiz. 28 no.1:138-140 Ja '64. (MIRA 17:1)

ACCESSION NR: APA013153

8/0203/64/004/001/0202/0205

AUTHORS: Akishin, A. I.; Tseplyayev, L. I.

TITIE: Secondary emission multiplier for recording micrometeors

SCURCE: Geomegnetizm i aeronomiya, v. 4, no. 1, 1964, 202-205

TOFIC TAGS: secondary emission, secondary emission multiplier, micrometeor, current rulse, electron, electron pulse, hemispherical cathode, scintillation counter

ABSTRACT: Various detectors are now being used to record micrometeors, the most sensitive being the scintillation counter, but the sensitivity of this instrument may be reduced in time by damage from the micrometeors and from corpuscular and electromagnetic radiation. Pressure-sensitive detectors (piezoelectric pickups)

cannot record micrometeors that have a mass less than 10<sup>-9</sup>-10<sup>-10</sup> g. The authors consider the possibility of a specially designed secondary-emission multiplier, with a large hemispherical cathode and an open entrance, which may record masses smaller than 10<sup>-10</sup> g. They examine the parameters of such a device on the basis of a model study. They compute (roughly) that the emission at the moment of impact of an iron micrometeor having a mass of 10<sup>-13</sup> g and a velocity of 45 km/sec will give an Cord 1/2

ACCESSION NR: APAO13153

electron pulse of  $\approx 10^5-10^6$  electrons for an interval of  $10^{-8}$  seconds. If the micrometeor is considered to be a cloud of individual atoms, the kinetic energy of each would be about 750 ev, and this would exceed the energy of the interatomic bond almost a hundredfold. The authors conclude that a hemispherical cathode of large diameter may be used for reliable recording of the rulse of an electron beam that may be hundreds or thousands of times weaker than expected in the recording of micrometeors. Tests on the multiplier during simultaneous transmission of current pulses to the cathode and imposition of a steady charge (imitating the cosmic background) have shown that the device permits reliable separation of current pulses lasting 1 microsecond against the steady background. The authors thank S. S. Vasil'yev for his support of this work. Orig. art. has: 3 figures.

ASSOCIATION: Woskovskiy gosudarstvenny\*y universitet (Moscow State University); Institut yadernoy fiziki (Institute of Nuclear Physics)

SUBMITTED: 18Jul63

DATE ACO: 02Mar64

ENCL: 00

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OTHER COS

Card 2/2

TSEPLIKEY, M. V.

Nekotorye voprosy mekhanizatsii i avtomatisatsii potochnogo proizvodstva; pod red. A. V. Khramogo. (Moskva) Moskovskii rabochii, 1948. 246 p. illus.

Bibliography: p. 240-(243).

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(Certain problems of mechanization and automatic performance of the assemblyline production.)

DLC: TJ1390.T8.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

TSEPLIAEV, M.V.

Nekotorye voprosy mekhanizatsii i avtomatizatsii potochnogo proizvodstva; pod red. A.V. Khramogo. (Moskva) Moskovskii rabochii, 1948. 246 p. illus

Bibliography: p.240-(243)

Certain problems of mechanization and automatization of the assembly-line production.

DLC: TJ1390. T8

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

TSEPLIARY M. V.	
Nekotorye woprosy mekhanizatsii i avtomatizatsii potochnogo proizvodstva. problems of mechanization and automatization of assembly line production. Moskovskii rabochii, 1948. 246 p. (49-29780)	Several Mogkva.
TJ1390.T8	
1. Conveying machinery.	
65769	

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757010006-4"

#### TSEPLITE, R. K.

Result of the use of thiophosphoramide in clinical conditions. Vop. klin. lech. zlok. novoobraz. 7:171-178 161.

1. Respublikanskaya klinicheskaya bol'nitsa im. P. I. Stradynya (glavnyy vrach, L. G. Shcherbakova).

(ANTINEOPLASTIC AGENTS ther)

Clinical value of determination of third fraction of blood coagulation in cancer. Vopr.klin.lech.zlok. novoobraz., Riga. 2:49-52 1955

1. Sektor onkologii (zav. prof. doktor P.I. Stradyn') Institut eksperimental'noy meditsiny AN Latviyskoy SSR (dir. prof. doktor P.I. Gerke).

(NEOPLASMS, blood in. blood coagulation third fraction (Rus))

(BLOOD COAGULATION, third fraction in cancer (Rus))

STRADYN', P.I., prof., TSEPLITE, R.K. (Riga)

Treatment of oncological patients with thiophosphoremides; preliminary report. Klin.med. 36 no.7:135-137 Jl '58 (MIRA 11:11)

1. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. P.I. Stradyn')
Rizhskogo meditisnskogo instituta (dir. - chlen-korrespondent ANN SSSR E.M. Burtniyek) i Instituta organicheskogo sinteza AN Latviyskoy SSR (dir. - chlen-korrespondent AN Latviyskoy SSR (dir. - chlen-korrespondent AN Latviyskoy SSR S.A. Giller).

(CYTOTOXIC DRUGS, ther. use

tris (l-aziridinyl)-phosphine sulfide in cancer (Rus))

U-5

USSR / General Problems of Pathology. Tumors. Metabolism.

: Ref Zhur - Biol., No. 10, 1958, No. 46837 Abs Jour

Author : Tseplite, R. K.

: Institute of Experimental Medicine, Academy of Sciences Inst

Latvian SSR.

Title : Changes of the Bromine Level in the Blood of Cancer

Patients.

HAN GERLANDER ELECTE SERVICIO EN PRESENTANTE EN PRESENTANTA PRESENTANTA POR PRESENTANTA POR PROPERTA PORTA POR PORTA POR PROPERTA POR PORTA PORTA POR PORTA PORTA POR PORTA PORTA

Orig Pub : Tr. In-ta eksperin. med. AN LatvSSR, 1956, 10, 167-176.

: The average Br content in the blood of 56 healthy average Abstract

was found to be 493.2 & percent. In stomach cancers the average Br content increases to 1,002  $\mathcal J$  percent, while in cancers of the rectum and of the mammary gland (MG) it averages 859 and 895 & percent. In ulcers of the stomach and of the duodenum, in stomach polyposis and in antacid gastritis, the Br content is almost normal. Roentgentherapy of MG decreased Br concentration by 7 percent.

Card 1/1

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CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

NEMIRO, Ye.A. (Riga, ul. Lenina, d.138, kv.23); TSEPLITE, R.K. (Riga, ul. Palasta, d.8, kv.4)

A rare form of peripheral lung cancer [with summary in Inglish].

Vop.onk. 3 no.6:740-742 57. (MIRA 11:2)

l. Iz Rizhskogo mezhrayonnogo onkologicheskogo dispansera (glav. vrach - A.P.Bezverkhaya) i kliniki fakul'tetskoy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. P.I.Stradyn') Rizhskogo meditsinskogo instituta dir. - chlen-korrespondent AMN SSSR prof. E.M. Burtniyek)

(HUNG NEOPLASMS, case reports
multiple metastases to bones & organs)
(BONE AND BONES, neoplasms
metastatic from lungs)

Name: TSEPLITIS, E. E.

Dissertation: The static strength of welded seams made by the corner spot welding method

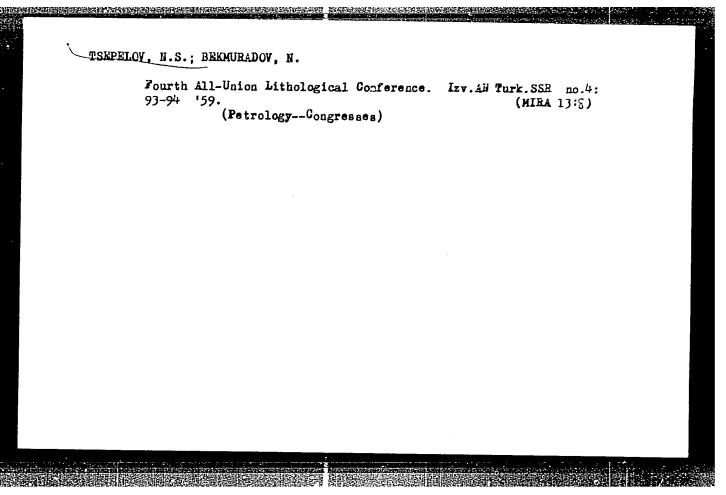
Degree: Cand Tech Sci

Min Higher Education USSR, Latvian State U

1956, Riga

Source: Knizhnaya Letopis', No 47, 1956

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757010006-4"



YEGORUSHKIN, Vasiliy Yegorovich; KOLB, Vitaliy L'vovich; STEPURO, Mikhail Aleksandrovich; TSEPLOVICH, Beniamin Isaakovich; NEKHAY, V.T., red.; MORGUNOVA, G.M., tekhn.red.

[Mechanical engineering] Mashinovedenie. Minsk, Izd-vo M-va vysshego, srednego, spetsial'nogo i professional'nogo obrazovaniia BSSR, 1963. 554 p. (MIRA 16:6) (Mechanical engineering)

YEGORUSHKIN, Vasiliy Yegorovich; KOLB, Vitaliy L'vovich; STEPURE,
Mikhail Aleksandrovich; TSEPLOVICH, Beniamin Isaakovich;
NEKHAY, V.T., red.; MORGUNOVA, G.M., tekhn. red.

[Mechanical engineering] Mashinovedenie. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1963. 554 p. (MIRA 16:9) (Mechanical engineering)

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Physical Cold (Cold (Cold Cold Cold Cold Cold Cold Cold Cold	THAM I BOOK MITACHINE BOW/5762	featherntains to magnitudy gidrodinasiss. Mas, 1958.	Oproof seguinos giarolineala i dinesia plany, trady Contrentaii. (Problem & Magnetohardoneza ed Basas Opusates Tracsections of a Gestranos Rige, Izd-ro al Larriyshy CSS, 1959. 34) p. Errate alip inserted. 1,000 copies printed.	Sponsoring Agnosts Abadentys neuk Latricyskoy 6529. Institut fisiki.	Mitterial Board: D.A. Frank-Lamentelly, Dotor of Physics and Mathematics, Professor; A.I. Vol'dar, Dotor of facinital Sciences, Fretessor; I.M. Kirm, Barber of Physics and Mathematics; V.Zs. Veldre, Gandlake of Physics and Mathematics; V.G. Yitol, Condidate of Physics and Mathematics; Tu.M. Krunics, and V.Xs. Everthenko.	Mar A. Poyal Demy Tech. Mar. A. Chwrings.	SPOCK: This book is intended for physiciate working in the field of magne bydrodynamics and nlama dynamics.	corrained: This volume contains the transactions of a conference held in Rigs, Ame 1955, on problems in spilled and thousteries improved the transit in the states and spilled amendment when the transit in the restate and spilled amendmentatropy and the conference were the impacting one beats between the people doing research in different branches of magnether formatics, and promoting the participation of theoretical shydicians in problems in applied	Union took part in the construct, and 55 papers were real Singlar confessor to be half angularly in the fitting the next confessor to the fitting in the fitting the next collection of the transacting by the fitting in the fitting in the fitting in the fitting in the 1960. In this present collection of the transacting	the confirming, most of the papers and commute on papers are presented by setting the tensions to see that of the papers and commute on the part of the tension of the papers of the tension of the papers of the problems of the papers of the problems as the tension of the problems as the	the state of superconjustics in service (1.2. Finit-farmetsi), we bydrodynatics and the investigation of considerary variations (L.I. Dorawi) secondarists of plants in a superior field (3.7. Cortayer and 2.1. Oldmon) tibility of shock varue and superchydrodynasics (a.1. Athlysiat). The science of the superchydrodynasics (a.1. Athlysiat).	the consisting of ) articles, that it is given as for the problem of apparamental subject produced in the consistent of printeral similation for immain of abatromagnetic processes in Mania metals (I.M. Kirin) and the deviation of development of the consistency	Address of Director, Levine Con. Bevoral militaes are devoted to industry, alectromagnetic revoluble, electromagnetic stirrers for solten as and thair application in the metallungical industry including schematic full agrees of their power-upply systems. References are given at the end	Mart of the Martines. Sproreiskly, 8.1. On the Stability of Shock Weres in Magnetahydromics	Midwide, B.V., and G.Ka. Lynharkty. The impossibility of Rare- faction floats Varue in Magnetohydrodynamics	Jordanskiy, S.V. Zemplan's Theorem in Magnetohydrolynamics	Kissley, K.I., and <u>V.K., Tambrar</u> , Oblique Shock Wave in Tlama With Milite Conductivity and Certain Other Problems in Shock-Wave Theory	Simple Lil. Thermodynamic Equilibrium of Strong Blacoutimity Surfaces	Athlyrer, A.I., and A.O. Stenke, On the Theory of Bydromagnatic	Merosor, A.I. Cherenkor Generation of Nagnetic Bound Mayor	Sitenko, A.C., and Yu.A., Klruckkin. Dissipation of Hydromepretic Wares in Turbulent Fluctuations	Gard 6/ 12	The second secon	
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Headuring galvanometer-type amplifier with semiconductor thermistors.

Izm. tekh. no. 6:40-43 Je 100.

(Electric institutions)

Mr 163.	on galvanometer amplifiers. (Galvanometer)	Izm.tekh. no.3:40-44 (MIRA 16:4)

5/115/63/000/003/006/010 E194/E455

Tseplyayev, K.N. AUTHOR:

Thermal-radiation galvanometer amplifiers PERIODICAL: Izmeritel'naya tekhnika, no.3, 1963, 40-44

TEXT: The principle of building a thermal-radiation galvanometer amplifier and its construction was discussed in a previous article (M.I.Levin, V.F. Semenov, K.N. Tseplyayev. Izmeritel naya tekhnika, no.6, 1960). The design of the main units of a thermal radiation amplifier for a zero indicating galvanometer is given. construction a heater is firmly connected to the galvanometer moving frame and as this is displaced from the zero position it alters the heating of two semiconductor thermal resistances which form two arms of a bridge circuit, the other two arms being To ensure stability of conversion factor and to raise the output power, a d.c. amplifier or emitter repeater is connected to the output and the whole system has strong negative The relationships between the angular displacement of the heater and the output signal depends on the thermal field of the heater and on the arrangement of the heater and thermal Tests showed that the relationship between the resistances. Card 1/3

S/115/63/000/003/006/010 E194/E455

Thermal-radiation ...

thermal resistance temperature and the distance from the heater diminishes approximately exponentially, the steepness being The heater must be greater with increased heater temperature. arranged horizontally and parallel to the resistances and should They should be near the be two or three times their length. central part of the heater where the temperature is greatest; the change in temperature of the resistances is greatest when they are in a horizontal plane some 0.3 to 0.4 heater-diameters below The influence of the properties of the resistances and heater and of the system geometry on the output The properties of various available semiconductor thermal resistances are described and type TIII-1 (TSh-1) is prefered. Tests showed that with appropriate selection of input voltage, current and bridge element characteristics, the relationship between the angular displacement of the galvanometer and the output voltage of the amplifier was approximately linear between 0 and 9 V. Stable characteristics depend upon a high output impedance and various ways of achieving this are described. Formulas are given for calculating the circuit characteristics Card 2/3

	Thermal-radiation		S/115/63/000/003/006/010 E194/E455	
	characteristics.	Two thermal-radiati	current and voltage output on galvanometer amplifiers of figures and 1 table.	it s
1				
	Card 3/3			

8(0)

AUTHORS:

Yemel'yanov, N. P., Candidate of Tech-SOV/105-58-11-3/28

nical Sciences, Tseplyayev, L. I., Engineer

TITLE:

Unbalanced Bridge Circuits for Measuring Corona Losses (Neuravnoveshennyye mostovyye akhemy dlya ismereniya

poter! na koronu)

PERIODICAL:

Elektrichestvo, 1958, Nr 11, pp 11 - 14 (USSR)

ABSTRACT:

The main difficulty encountered in measurements of corona losses is due to the extremely low power factor of the line circuit. In the USSR four-arm bridges are more and more used for such purpose, employing a calibrated high-voltage condenser (C4,R4) as one arm and the line affected with the

as the other  $(C_2,R_2)$ . As the calibrated condenser losses during the no-corona operates with operation of the line it is necessary to introduce supplementary resistances  $R_{1}$  and  $R_{3}$  into the low-voltage arms in case they  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left$ 

Card 1/4

capacities, and a capacity C, into the low-voltage arms with ohmic resistances. When corona occurs, the

CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

Unbalanced Bridge Circuits for Leasuring Corona Losses SOV/105-08-11-3/28

bridge compensation is disturbed and hence a current flows through the diagonal (Ref 1): formula (1). This formula is simplified, yielding (2). It appears that the current in the diagonal of the bridge would be proportional, if both the active and the reactive component of the unbalance current, which is due to the circuit elements in the bridge, would be zero. It is demonstrated that the reactive component of the unbalance current never fails to occur and that hence the diagonal current is in the general case not proportional to the corona current. By a corresponding choice of the quantities A and B (see formula 2), which are dependent upon the parameters of the low-voltage arms of the bridge, it can be achieved that either the real or the imaginary component of the current in the bridge diagonal varies as the corona current. In the first case, with  $A \gg B$ , the real component will vary as the corona current, whereas in the second case, with  $A \leqslant B$ , this will be true of the reactive component. If I act unbal = 0 formula (2) transforms into (5).

Card 2/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757010006-4"

. Unbalanced Bridge Circuits for Measuring Corona Losses SCV/105-58-11-3/28

From (5) and the same formula for  $I_{react\ unbal}$ the error of power measurement is derived to follow equation (6) and (7). In the first case the current coil of the wattmeter is connected in the diagonal of the bridge and the voltage circuit is either connected with an additional active resistance to the full transformer voltage, or it is connected to the voltage at the tap between points 1 and 2 of the line transformer. In the second case the voltage circuit is connected in the bridge diagonal, a current proportional to the line voltage driving the current coil of the wattmeter, which, however, is shifted through an angle of  $\frac{\pi}{2}$  . The calculation of the errors by pertinent formulae occurring when an electrodynamic wattmeter or an electrostatic wattmeter is connected is presented. There are 2 figures and ? Soviet references.

Card 3/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757010006-4"

-Unbalanced Bridge Circuits for Measuring Corona Losses SOV/105-58-11-3/28

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektro-

energetiki MES SSSR ( All-Union Scientific Research Institute of Electric Power of the Ministry of Power

Stations, USSR)

SUBMITTED: June 24, 1958

Ched 4/4

AKISHIN, A.I.; ANDREYEVA, M.G.; VASIL'YEV, S.S.; ISAYEV, L.N.;

TEPPLYAYEV, L.I.

Action of electron bombardment and glow dischare on alloyed secondary electron emitters. Radiotekh.i elektron. 8 no.2;
288-293 F '63.

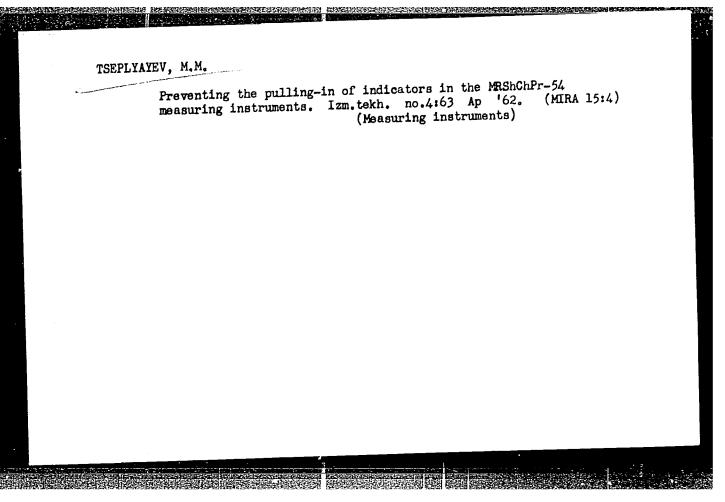
(Cathodes) (Thermionic emission)

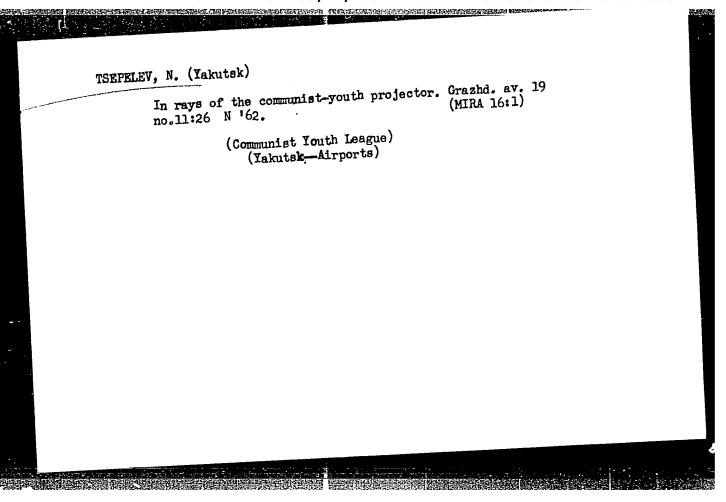
(Cathodes) (Thermionic emission)

#### TSEPLYAYEV, M.

We have increased the productivity of our grain drying and cleaning tower. Muk.-elev.prom. 26 no.1:29 Ja '60. (MIRA 13:6)

1. Machal'nik sushil'no-ochistitel'noy bashni Peskovskogo khlebopriyenmogo punkta Kokchetavskoy oblasti. (Kokchetav Province--Grain elevators)





NAUMOVICH, V.M.; CAMAYUHOV, N.I.; TSEPLYAYEV, O.A.

Hot pressing of peat under vacuum. Inzh.-fiz. zhur. no.12:
107-110 D '63.

1. Torfyanoy institut, Kalinin.

TSEPLYAYEV, O.A., inzh.

Peat compression under vacuum. Torf. prom. 40 no.6:15-18 '63.

(MIRA 16:10)

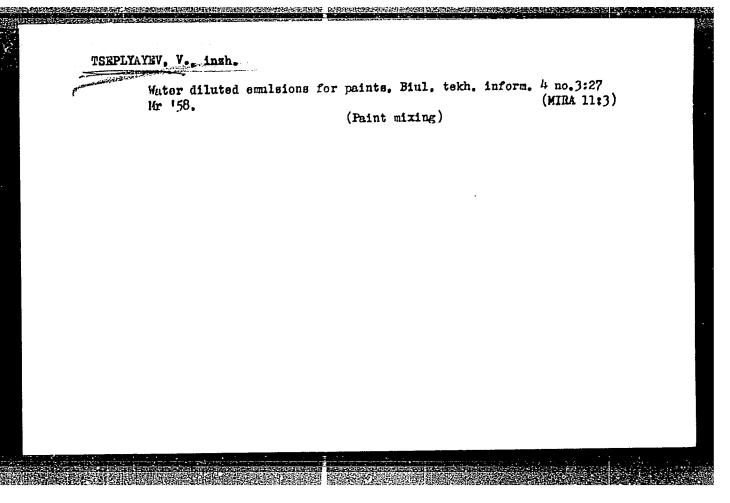
1. Kalininskiy torfyanoy institut.

BULYNKO, M.G.; TSEPLYAYEV, O.A.

Manufacture of strong briquets from the lignin of cotton hulls. Gidroliz. i lesokhim. prom. 16 no.6:12-13 '63. (MIRA 16:10)

1. Kalininskiy torfyanoy institut.

34086-66 SOURCE CODE: UR/0069/66/028/002/0191/0197 ACC NR AP6025521 57 AUTHOR: Bulychev, V. G.; Gamayunov, N. I.; Tseplyayev, O. A. ORG: Kalinin Polytechnic Institute (Kalininskiy politekinicheskiy institut) TITLE: Role of air in the pressing of hydrophilic powdered fuel SOURCE: Kolloidnyy zhurnal, v. 28, no. 2, 1966, 191-197 TOPIC TAGS: solid fuel, vacuum technique, adsorption, air, pressure effect ABSTRACT: Two successive processes develop in the vacuum pressing of peat dessicate -- strongthening of briquettes through decreased adsorption of air as the vacuum becomes higher, and drop in briquette strength due to entry of atmospheric air into the vacuum press mold. The optimal vacuum is determined by these processes and is due to intensity of strengthening and sorptional decrease in strength, which for their part depend on the briquette material and pressing conditions. Consequently, the optimal vacuum depends on the same factors as does the mechanical strength of briquettes. Air sorbed on solid and quasi-solid peat components is a deleterious agent in briquetting and must be eliminated. Achieving a vacuum of the order of 4 · 10-4 normal atmosphere/meter2 in the pressing chamber results in up to 60% increase in mechanical strongth of briquettes. When there is equal. strength in vacuumed and ordinary briquettes, pressure can be reduced by approximately one-half or the pressing time can be cut down to one-fifth one-eighth. Orig. art. has: 5 figures. [JPRS: SUB\_CODS: 21, 13, 07 / SUBM DATE: 29Jan65 / ORIG REF Card 1/1 >



TSEPLYAYEV, V.I.

Equations for the correlation functions of a system of shortrange Coulomb particles in equilibrium. Dokl. AN SSSR 143 no.4:829-831 Ap '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

Predstavleno akademikom N.N.Bogolyubovym.

(Statistical mechanics)

Isothermal jump in magnetohydrodynamics. Zhur. eksp. i teor. fiz.
38 no.1:255-256 Jan '60.

1. Moskovskiy gosudarstvennyy universitet.
(Magnatohydrodynamics)

S/020/62/143/004/013/027 B104/B102	<b>5</b>
AUTHOR: Tseplyayev, V. I.  TITLE: Equations for the correlation function of an equilibrium system of Coulomb particles with short-range order system of Coulomb particles with short-range order.	1.
periodical: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 829 - 831  TEXT: A calculation method of the short-range repulsion forces of a classical system of Coulomb particles in thermodynamic equilibrium is classical system of Coulomb particles in thermodynamic equilibrium is classical system of the different order corrections to the effective suggested. Equations for the different order corrections to a Debye interaction energies of two, three and more particles are derived. These interactions, for instance, allow calculation of the corrections to a Debye equations, for instance, allow calculation of the corrections to a Debye potential. Attempt is made to explain the meaning of a Kramers type potential which is often used in investigations of Coulomb particle systems. Therefore are due to K. P. Stanyukovich and Yu. L. Klimantovich for discuss-	15. Ve
 ions.  ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  (Moscow State University imeni M. V. Lomonosov)	,
Card 1/2	

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AUTHORS:

Kiselev, M. I., Tseplyayev, V. I.

sov/56-34-6-29/51

TITLE:

Inclined Shock Waves in a Plasma With Finite Conductivity (Naklonnyye udarnyye volny v plazme s konechnoy provodi-

most'yu)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol. 34, Nr 6, pp. 1605-1609 (USSR)

ABSTRACT:

This paper investigates the structure of the front of an inclined shock wave for arbitrary orientations of the field before the front in a plasma with finite conductivity. This plasma is assumed to have a constant and isotropic conductivity of which is high enough for the displacement current to be neglected. The authors obtain the conditions for the possibility of neglecting the kinematic viscosity  $\gamma$  and the thermal conductivity due to the electrons  $\kappa$ . ( $\gamma$  and  $\kappa$  are neglected with respect to the magnetic viscosity  $\gamma$  in the system of the equations of magnetic hydrodynamics). This condition  $\nu$  is specialized also for a special case. Then the

authors give the particular integrals of the equations of authors give the particular integrals of the equations of magnetic hydrodynamics. The second part of this paper deals

Card 1/2

sov/56-34-6-29/51

Inclined Shock Waves in a Plasma With Finite Conductivity

with the structure of an inclined shock wave in a plasma with finite conductivity. The above mentioned particular integrals of motion are specialized to this case. One integral is computed numerically and an expression is obtained for the breadth of the front. The last part of this paper calculates the limit angle of the propagation of the inclined shock wave in a plasma with infinite conductivity. The boundary conditions are given also for this case. In the presence of a magnetic field, the above mentioned limit angle is larger than in the case where there is no magnetic field. The author thanks K. P. Stanyukovich who proposed this problem and was constantly interested in this paper. There are 2 figures and 4 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: January 20, 1958

Card 2/2

ZHUKOV. Anatoliy Borisovich; TSEPLYAYRY, Vasiliy Petrovich; KOVALIN, D.T., redaktor; SHAKHOVA, L.I., redaktor izdatel stva; KOLESNIKOVA, A.P., tekhnicheskiy redaktor

[The Fourth World Forestry Congress and the forestry of India] IV Mirovoi lesnoi kongress i lesnoe khoziaistvo Indii. Moskva, Gosles-(MIRA 9:10) bumizdat, 1956. 117 p. (Dehra Dun. India -- Forests and forestry -- Congresses)

(India -- Forests and forestry)

TIMOFEYEV, Vladimir Petrovich; TISHCHENKOV, Ivan Antonovich; TSEPLYAYEV,
Vasiliv Petrovich; SHIMEV, Ivan Semenovich; ZHUKOV, A.B., red.;
Vasiliv Petrovich; SHIMEV, Ivan Semenovich; ZHUKOV, A.B., red.;
SHAKHOVA, I.i., red.izd-va; ERATISHKO, I.V., tekhn.red.

[Forestry in Great Britain] Lesnoe khoziaistvo Velikobritanii.
Moskva, Goslesbumizdat, 1957. 53 p. (MIRA 11:1)
(Great Britain-Forests and forestry)

BOVIN, A.I., obshchiy red.; TSEPLYAYEV, V.P., obshchiy red.; KOVALIN, D.T., obshchiy red.

[Forestry in the U.S.S.R., 1917-1957] Lesnoe khoziaistvo SSSR, 1917-1957. Moskva, Gcslesbumizdat, 1958. 274 p. (MIRA 13:1)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye lesnogo khozyaystva i polezashchitnogo lesorazvedeniya.

(Forests and forestry)

"Forestry Development In The USSR"

report to be submitted for the Fifth World Forestry Congress, Seattle, Washington, 29-10 Sep 60

Deputy Head, Forestry & Protective Afforestation Inspectorate, Ministry of Agriculture USSR, Moscow.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757010006-4"

TSEPLYATEV, Vasiliy Petrovich; BREDIKHIN, A.M., red.; BALLOD, A.I., tekhn. red.

HERRENESS PROCES IN HIS SECRETARIO EXCESTARIO ESCADA DE CONTRADOR PROCESA PROCESA DE CONTRADOR DE CONTRADOR DE

[Forests of the U.S.S.R.; economic features] Lesa SSSR; khoziaistvennaia kharakteristika. Moskva, Gos. izd-vo sel'khoz.
lit-ry, 1961. 455 p. (MIRA 14:5)
(Forests and forestry--Economic aspects)

PRISELKOV, Yu.A.; SAPOZHNIKOV Yu.A.; TSEPLYAYEVA, A.V.

Measurement of the vapor pressure by the Knudsen method. Vest.

Mosk. un. Ser. 2: Khim. 19 no.5:74-76 S-0 '64.

(MIRA 17:11)

1. Kafedra radiokhimii Moskovskogo universiteta.

AUTHORS: Tseplyayeva, A. V., Priselkov, Yu. A., Karelin, V. V.

TITLE: Measurement of the pressure of saturated silicon vapor

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 2, khimiya, no. 5, 1960, 36-38

TEXT: At present the physico-chemical properties of semiconductors are extremely interesting. The present study deals with pressure measurement of saturated silicon vapor and the calculation of its heat of sublimation. It is possible that the values determined by means of the boiling point and jet method are unreliable due to inaccurate determination of the beginning of boiling. The mass spectroscopic determination of the pressure of saturated vapor, as well as that of molecular composition and the heat of sublimation by R. E. Honig (Refs. 4 and 5, see below) led to the conclusion that Si vapor is monatomic and the amount of Si<sub>2</sub>....Si<sub>7</sub> molecules by two orders of magnitude lower. The inadequate method of measurement leaves doubts as to the correctness of the results. Knudsen's effusion method was used in an apparatus with high-frequency heating to render the data more precise; this Card 1/5

Measurement of ...

apparatus is described in (Ref. 7: Yu. A. Priselkov et al.: Izv. AN SSSR, otd. tekhn. nauk; Metallurgiya i toplivo No 1, 106, 1959). Pure Si (99.95%) was used for this purpose. The molybdenum vessel and -diaphragm were degasified in vacuum at 1500-1800°C. The considerably lower vapor pressure of the molybdenum silicide thus formed has no effect upon determination. The ratio between the evaporation surface of the substance and the surface of the effusion opening (diameter = 0.173) should be at least 800. In the above experiment it was 22600. The water-cooled quartz receiver was previously heated to 100-150°C and protected with a layer of fluoroplast. The sublimated Si was dissolved in 10 ml of hot KOH (1:5) and 5 ml water. It was calorimetrically determined by the method described (Ref. 8: Yu. I. Usatenko et al.: Zavod. Lab., 15, 11, 1949) (Ref. 9: A. I. Ul'yanov: ibid. 19, 1154, 1953) which bases upon the formation of the blue silicon-molybdenum complex. Table 1 shows the results obtained. Proceeding from Honig's assumption of the monatomic character of Si vapor, vapor pressure and sublimation pressure were calculated. To determine the sublimation heat at  $0^{\circ}K$ , the thermodynamic potential for gas- and consensed phases  $\phi_{_{\mathcal{H}}}$  and  $\phi_{_{K}}$ were used, which had been determined in the 1GI AN SSSR (Institute of Mineral Fuels of AS SSSR). The following equation was derived: Card 2/5

Measurement of ...

log p = 9.602 - 18558/T, where p = pressure in mm Hg. The values obtained were in agreement with previously published data (Ref. 2: 0. Ruff et al.: Z. Elektrochem. 32, 515, 1926) (Ref. 3: E. Baur et al.: Helv. chim. acta, 17, 959, 1934) differed, however, from Honig's values, since the latter carried out evaporation with exposed surface. If  $\alpha(1)$ , the pressure is lower than the real pressure. In the present study, the maximum relative error  $(\delta_p)$  for the pressure was 18.65%, for  $\Delta H_0^0(\delta\Delta H_0^0)$ , 1.6%. Thus,  $\Delta H_0^0=90.6\pm1.5$  kcal/mole was obtained for the standard sublimation heat at  $0^{\circ}$ K. There are 1 figure, 2 tables, and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The two references to English-language publications read as follows: Ref. 4: R. E. Honig: J. Chem. Phys., 22, 1610, 1954; Ref. 5: R. E. Honig: RCA Rev. a technical Journ., 28, 195, 1957.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova Kafedra radiokhimii (Moscow State University imeni M. V.

Lomonosov Department of Radiochemistry)

SUBMITTED: December 18, 1959

Card 3/5

Measurement of ...

Legend to Table 1: Evaporation rate of crystalline Si. 1) temperature; 2) amount of evaporated Si in g; 3) time of exposure, 7, sec.; 4) Evaporation rate (G), g/cm<sup>2</sup>·sec.

TABLE 1

Taganus 1

Скорость испарения кристалинческого кремния

- Температура		2Количество ис-	3 Вреия	у Скорость испаре-	
·c	્ય	парившегося кремния (g·10%), г	экспозиции т, сек.	ння (Q), г/см <sup>2</sup> -сек	
1212 1220 1240 1250 1260 1282 1302	1485 1493 1513 1523 1533 1555 1575	26 24 25 26 26 34 39	1620 14 400 1080 9000 9000 7200 5400 3600	1,157 1,202 1,669 2,083 2,083 3,405 5,207 7,811	

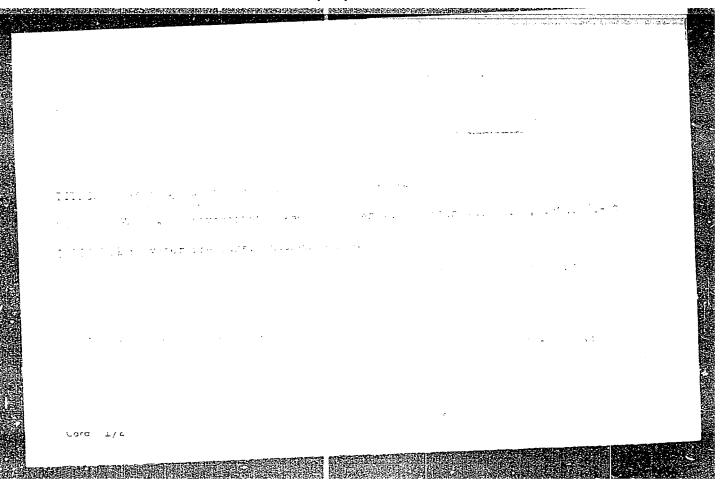
CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

Measurement of ...

Legend to Table 2: Pressure of saturated vapor and evaporation heat of monatomic Si. 1) temperature, 2) Si vapor pressure, p·10<sup>3</sup> mm Hg, 3) heat of sublimation of Si  $\Delta H^0$  cal/mole, 4) cal/mole, 5) mm Hg, 6) mean value.

1 Темпера- тура, °К	$\frac{1}{T}$ . 101	20 Давление пара кремния, p.103 мм рт. ст.	—lg", ин 5 рт. ст.	Теплота сублимации кремния $\Delta H_0^0$ , каж/моль	δΔ//0, 4 квл/моль
	1	1 405	2.8431	90 093	-512
1485	6,734	1,435		90 442	-163
1493	6,698	1,502	2,8233		1
1513	6,609	2,100	2,6778	90 642	+ 37
1523	6,566	2,629	2,5802	90 559	- 46
1533	6,523	2,637	2,5627	91 030	+425
1555	6,431	4,342	2.3623	90 905	+300
	1 '	1	2,1750	90 720	+115
1575	6,349	6,683	1	1	-151
1593	6,277	10,082	1,9965	. 90 454	1 -101
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TSEPLYAYEVA, A. V.; PRISELKOV, Yu.A.; KARELIN, V.V.

Measurement of the saturated vapor pressure of silicon. Vest. Mosk. un. Ser. 2: Khim. 15 no.5:36-38 S-0 60. (MEA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra radiokhimii. (Silicon) (Vapor pressure)

PRISELKOV, Yu.A. (Moskva); SAPOZHNIKOV, Yu.A. (Moskva); TSEPLYAYEVA, A.V. (Moskva)

Pressure of saturated aluminum vapor. Izv.AN SSSR.Otd.tekh.nauk
Mat.i topl. no.1:106-109 Ja-F '59. (MIRA 12:6)
(Vapor pressure) (Aluminum)

sov/180 -59-1-20/29 Priselkov, Yu.A., Sapozhnikov, Yu.A. and Tseplyayeva, A.V. AUTHORS: Pressure of Saturated Aluminium Vapour (Davleniye nasyshchennogo para alyuminiya) TITLE: PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 1, pp 106-109 (USSR) ABSTRACT: The authors describe their measurements of the pressure of saturated aluminium vapour in the range 1273-14730K by an integral variant of the effusion method. 99.998% pure aluminium was used. The apparatus (Fig 1) was of a continuous-action type with the special feature of a high-vacuum valve which enables the vapour-receiver to be replaced without disturbing the vacuum or stopping the heating. In the effusion chamber (Fig 2) evaporation of aluminium was effected in a beryllium-oxide crucible covered with a refractory disc (ground to fit and pressed down by the force of springs) with the effusion aperture. The crucible was contained in a massive molybdenum block and heated by high-frequency currents. Measures were taken to secure temperature uniformity and to minimise Card 1/2 the effect of the h.f. on the effusion process. Temperatures were measured with thermocouples calibrated

Pressure of Saturated Aluminium Vapour S07/180-59-1-20/29

by placing metals of known melting point in the crucible. From the results (Table) it was found by the method of least squares that the logarithm of the vapour pressure (mm Hg) is equal to 9.2776 - 16079/T, where T is the absolute temperature in ok. These results were in good agreement with those of other workers (Refs 1 and 2). The calculated value of the standard heat of evaporation was 74720 ± 310 cal/mole. The author has also calculated the degree of dissociation of the vapour for each experiment (Table), the mean value being 0.976.

Card 2/2 There are 3 figures, 1 table and 4 references, 3 of which

are English and I German.

SUBMITTED: July 31, 1958

CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

PRISELKOV, Yu.A.; SAPOZHNIKOV, Yu.A.; TSEPLYAYEVA, A.V.; KARELIN, V.V.

On the accuracy of the effusion method. Determination of indium saturated vapor pressure. Izv.vys.ucheb.zav.;khim. i khim.tekh. 3 no.3:447-451 160. (MIRA 14:9)

TSEPLYAYEVA, A.V., FRISHLKOV, Yu.A.

Effect of germanium radioactivity on its evaporation. Vest. Mosk. un. Ser. 23 Khim. 20 no.2:54-55 Mr-Ap '65. (MIRA 18:7)

l. Kafedra radiokhimii Moskovskogo universiteta.

S/032/60/026/011/024/035 B004/B067

AUTHORS:

Kifer, I. I. and Tseplyayeva, M. S.

TITLE:

Determination of the Characteristic Values of Cores of

Ferroprobes for Use in Magnetic Defectoscopy

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 11, pp. 1298-1301

TEXT: The authors explain that the magnetization curve is not sufficient for determining the characteristic values of cores of probes for use in magnetic defectoscopy. The dependence of the maximum induction  $B_{2m}$  of the second harmonic on the voltage  $H_m$  of the exciting alternating field with a constant value of the constant field  $H_m$  and, conversely, the function  $B_{2m}(H_m)_{H_m} = const$  are characteristic of the core material of the probe. Two circuits were designed for measuring the  $B_{2m}$  values. 1) For frequencies up to 2 kc/sec with two T-shaped RC bridges, a 28 MM (28 IM) amplifier, and a phase-shifting bridge; 2) for frequencies up to 100 kc/sec an LC resonant Card 1/2

Determination of the Characteristic Values S/032/60/026/011/024/035 of Cores of Ferroprobes for Use in Magnetic B004/B067

circuit with an MBJ-2M(MVL-2M) electron voltmeter. 80 HXC (80 NKhS) permalloy probes were tested at 15, 30, 50, and 100 kc/sec. There are 4 figures and 3 Soviet references.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Institute of Power Engineering)

Card 2/2

TSEPLYAYEVA, M.S.

Magnetic probe testing of pipes made from low-carbon steel. Zav. lab. 30 no.3;309-310 '64. (MIRA 17:4)

1. Moskovskiy energeticheskiy institut.

KIFER, I.I.; TSEPLYAXEVA, M.S.

Design of ferromagnetic probes for magnetic defectoscopy.

Zav. lab. 29 no.6:725-730 '63. (MIRA 16:6)

1. Moskovskiy energeticheskly institut.
(Magnetic testing)

K

Country : USSR

Category: Forestry. Forest Cultures.

Abs Jour: RZhDiol., No Ll, 1958, No 48805

Author : Sulkhanov, A.P.; Tseplyayev, I.P.

Inst

Title : A Hundred-Year Experiment in Forest Cultivation in

the Khrenov Pine Forest.

Orig Pub: Lesn. kh-vo, 1957, No 11, 39-45

Abstract: No abstract.

: 1/1 Card

	SQT/55-59-5-29/72 conference of Universities and Colleges	PERIORGAL: Vestalk Ecskowskogo universalteta. Serrya matematiki, nekhaniti O matematiki Ecskowskogo universalteta. Serrya matematiki, Edialki, kihadi, 1959, Mr 3, pp 221-223 (USER)		Libraring Annual Explaint in irradition of Collisia Librarium of the Soull Atom Expansion of Soulland of Collisia Librarium of the Soulland House Collisia Librarium of Soulland House Collisia Librarium of Collisia Librar	
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S/180/60/000/01/019/027 E071/E135

Priselkov, Yu.A., Sapozhnikov, Yu.A., and AUTHORS:

Tseplyayeva, A.V. (Moscow)

Measurement of Saturated Vapour Pressure of Boron TITLE:

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, Nr 1, pp 134-137 (USSR)

ABSTRACT: The results of measurement of vapour pressure of boron within temperature range 1651-1764 OK by the effusion

method are reported. The experimental method and apparatus used were described previously (Refs 1-5). Specimens of boron were of 99.42% purity and contained less than 0.16% of hydrogen. The evaporation was done from a molybdenum vessel covered with a diaphragm from The diameter of the effusion molybdenum or tantalum. hole was varied from 0.09 to 3.1 mm. The experimental results are given in Table 1. The vapour pressure and heat of sublimation (Table 2) were calculated by the usual method (Ref 7) assuming that boron in the vapour

phase is monoatomic. The vapour pressure was found to be Card 1/2

dependent on the ratio S/Ko (the ratio of the evaporation surface S to the product of the surface

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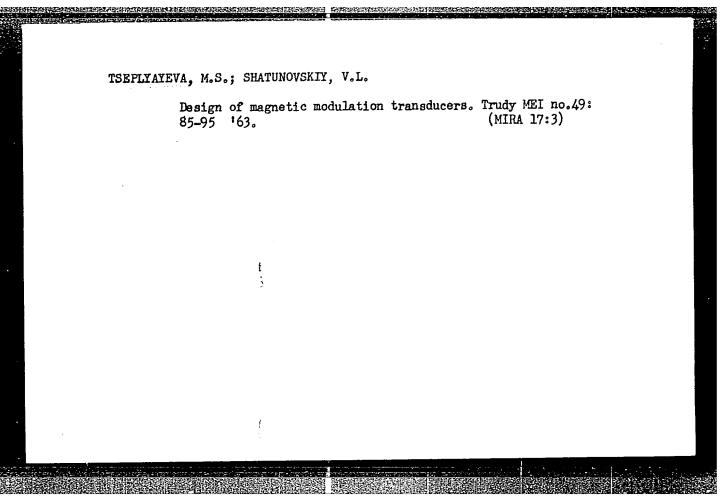
Measurement of Saturated Vapour Pressure of Boron

area of the effusion hole  $\sigma$  and the Klausing coefficient K). It is pointed out that despite a preliminary saturation with boron of internal surfaces of the holding vessel and diaphragm by preheating to a temperature above that at which the determination was carried out, some part of the boron vapour was probably irreversibly absorbed by the internal surface so that the equilibrium in the system was not completely established. Therefore, the results for boron vapour pressure may be somewhat lower. The dependence of  $\Delta H_0$  on S/K $\sigma$  is shown in the Figure. The authors consider that the determinations of Searcy and Myers (Ref 1) are less accurate than their own. Heat of sublimation of boron is considered to be  $101 \pm 2 \text{ kcal/mol}$  (at 0 °K).

Card 2/2

There are 1 figure, 2 tables and 9 references, of which 6 are English and 3 Soviet.

SUBMITTED: November 27, 1959

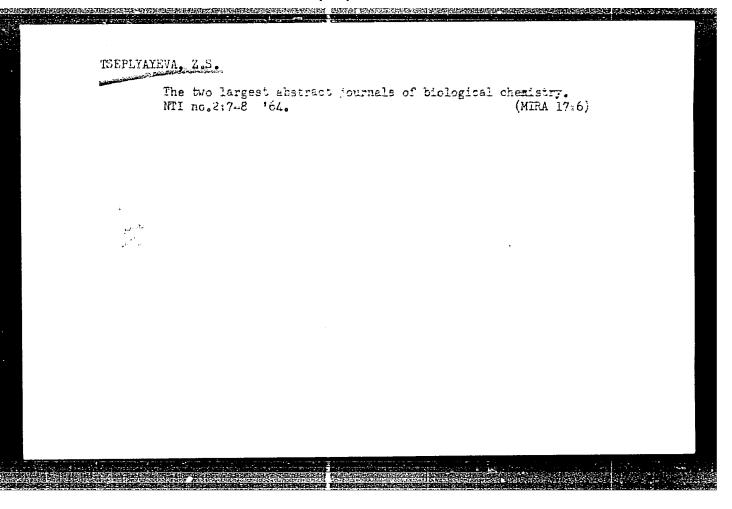


LYUBIMOV, V.I.; TSEPLYAYEVA, Z.S.

Scientific information in the field of biological chemistry.

Biokhimia 25 no.5:974-976 S-0 '60. (MIRA 14:1)

(BIOCHEMISTRY—PERIODICALS)



TSEPKANOVA, Ye.I.; KHESINA, B.G.

Estimating the preceding development of atmospheric processes and distribution of weather elements in the preparation of monthly weather forecasts. Trudy TSIP no.71:中中, '58.

(Weather forecasting)

TSMPKANOVA, Ye.i.; URITAVA, B.R.

Forecasting general characteristics of veather for a month.
Trudy TSIP no.71:3-10 '58. (MIRA 11:12)

(Weather forecasting)

YEMEL'YAMOV, N.P., kand. tekhn. nauk; TSEPIAYAEV, L.I., inzh.

Unbalanced bridge circuits for measuring corona losses.
Elektrichestvo no.11:11-14 N '58. (MIRA 11:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki.
Ministerstva elektrostantsiy SSSR.

(Corona (Electricity)

39033 S/144/62/000/006/009/009 D230/D308

24.2200

AUTHORS:

Kifer, I.I., Candidate of Technical Sciences, Docent,

and Tseplyayeva, M.S., Engineer, Assistant

TITLE:

Choice of the field excitation frequency of ferro-

sondes used in magnetic defectoscopy

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Elektro-

mekhanika, no. 6, 1962, 687-689

The sensitivity of ferrosondes operating on the principle of frequency doubling is determined by the ratio of the second harmonic emf to the intensity of the magnetic field. The relation between the sensitivity and the frequency is found from the ratio of the core magnetic permeability A and the form permeability m. For m  $\ll$   $\mu$  the sensitivity of the ferrosondes is almost proportional to the frequency; similarly, the frequency increase causes a time decrease in the active core section and an increase of the form permeability. The form permeability increases with frequency; the ratio between  $\mu$  and m varies for each definite core dimension and,

Card 1/2

CIA-RDP86-00513R001757010006-4" APPROVED FOR RELEASE: 03/14/2001

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Choice of the field ...

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starting with a given limit frequency, the sensitivity increases rather less than the excitation current frequency of the ferrosondes. In the case of short ferrosonde cores (3-7 mm), the condition  $\mu \gg m$  holds for large frequency changes. The excitation current frequency for those sondes can be increased to a few kc/s. Increasing the value  $\lambda = 1/d$ , where 1,d - length and diameter of the core, respectively, the upper frequency limit for which the sensitivity varies linearly with frequency, decreases. For sondes with large  $\lambda$  values used in geophysical measurements, the optimum working excitation current frequency is below 10 kc/s. These results are valid for ferrosondes made of any permalloy material whose initial permeability  $\mu_a > 5000 - 10,000$ . There is 1 table.

ASSCCIATION:

Moskovskiy energeticheskiy institut (Moscow Insti-

tute of Power Engineering)

SUBMITTED:

April 5, 1961

Card 2/2

KIFER, I.I.; TSEPLYAYEVA, M.S.; SHATUNOVSKIY, V.L.

Blectrical equilibration of ferromagnetic probes for magnetic flaw detection. Zav.lab. 28 no.1:105-107 '62.

(MIRA 15:2)

1. Moskovskiy energeticheskiy institut. (Magnetic testing)

KIFER, I.I.; TSEPLYAYEVA, M.S.

Determination of the characteristics of ferromagnetic sonde cores for magnetic flaw detection. Zav.lab. 26 no.11:1298-1301 '60.

(MIRA 13:11)

1. Moskovskiy energeticheskiy institut.
(Magnetic testing)

KIFER, I.I.; TSEPLYAYEVA, M.S.

Magnetic characteristics of materials operating in difficult conditions of magnetization. Trudy inst. Kom.stand.mer i izm. prib no.64:168-171 '62. (MIRA 16:5) (Ferromagnetism) (Magnetization)

KIFER, Isaak Iosifovich, kand. tekhn. nauk, dotsent; TSEPLYAYEVA, Marianna Samuilovma, inzh., assistent

Concerning the choice of field excitation frequency ferrite probes used in magnetic flaw detection. Izv. vys. ucheb. zav.; elektromekh. 5 no.6:687-689 162. (MIRA 15:10)

1. Kafedra obshchey elektrotekhniki Moskovskogo energeticheskogo instituta.

(Magnetic measurements) (Transducers)

SUNDUK'YAN, G.S.; BOYARINOV, A.K., retsenzent; STARIKOV, A.Ya., rotsenzent; SIDCROV, A.G., redaktor; TSRFIMAYEVA, Z.S., redaktor; LARUS, G.A., tekhnicneskiy redaktor

[Varehouse economy and principles of storing crude hides and furs] Skladskoe khozisistvo i osnovy khraneniia zhivotnovodcheskogo syr'ia i pushniny. Moskva, os. izd-vo tekhn. i ekon. lit-ry po voprosam zagotovok, 1953. 275 p.

(Hides and skins--Storage)